Approved For Release 2009/04/09 : CIA-RDP78B03817A000500020024-2

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SUBJECT: CAMERA INFORMATION FOR MISSION 1041-1

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

A. MAIN UNITS	FORWARD	AFT	STAR HOR	PORT HOR
FOCAL LENGTHS (MM)	609.628	609.602	FWD55.000	FWD54.900
			AFT55.000	AFT55.000
FILTER (WRATTEN NO.)	23A	21	25	25
APERTURE	F3.5	F3.5	F8.0	F6.3
SLIT WIDTH (IN)	.225	.175	-----	-----
EXPOSURE (SEC)	1/100	1/100		
FILM	3404	3404	3404	3404
RESOLUTION (L/MM)	178	187	NA	NA

B. S/I UNITS	STELLAR	INDEX
FOCAL LENGTH (MM) PART 1	84.0365	38.3290
PART 2	NOT AVAILABLE	
FILTER (WRATTEN NO.)	NONE	21

Approved For Release 2009/04/09 : CIA-RDP78B03817A000500020024-2

Approved For Release 2009/04/09 : CIA-RDP78B03817A000500020024-2

APERTURE		F1.8	F4.5
EXPOSURE (SEC)		2.0	1/500
FILM		4401	4400
RESOLUTION (L/MM)	PART 1	---	71
	PART 2	---	73
UNIT NUMBER	PART 1	D105/134/133	
	PART 2	D102/127/127	

3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN UNITS	3	2	1	Ø	359	358	357
FWD UNIT	.Ø	.Ø	.ØØ2	.Ø	.ØØ1	.Ø	.ØØ3
AFT UNIT	.ØØ2	.ØØ1	.Ø	.Ø	.Ø	.ØØ2	.ØØ3

B. HORIZON CAMERAS (MM)	FWD		AFT	
	PORT	STAR	PORT	STAR
(RADIAL) 10 DEGREES	.Ø1Ø	.Ø2Ø	.Ø1Ø	.Ø1Ø
2Ø DEGREES	.Ø5Ø	.Ø5Ø	.Ø4Ø	.Ø3Ø
(TANGENTIAL) MAX VECTOR	.Ø2Ø	.Ø25	.Ø1Ø	.Ø3Ø

4. CAMERA ANGLES		DEG.	MIN.
A. ANGLE BETWEEN PAN CAMERAS		29	45.Ø3
B. DEPRESSION ANGLE BETWEEN HORIZON AND PAN CAMERAS	FWD STAR	15	23.8
	FWD PORT	14	37.5
	AFT STAR	15	13.9
	AFT PORT	14	48.5
C. ANGLE BETWEEN STELLAR AND INDEX CAMERAS	PART 1	89	54.Ø
	PART 2	NOT AVAILABLE	

Approved For Release 2009/04/09 : CIA-RDP78B03817A000500020024-2

Approved For Release 2009/04/09 : CIA-RDP78B03817A000500020024-2

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV), AND PASSES WHERE USED).

REF. LEVEL			AMPL. LEVEL			PASSES
NO.	CPS.	GAV.	NO.	CPS.	GAV.	
7	.3333	.0301	3	.1099	.0994	1D THRU 2D
4	.3715	.0336	1	.1302	.0118	8A, 15D, 54A
11	.2724	.0246	1	.1302	.0118	5D THRU 84D EXCEPT 8A, 15D, 54A

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZULU TIME)				PROGRAM ON TIME UP RAMP	PROGRAM DURATION
	DAY	HR	MIN	SEC	SEC	SEC
1D	9	23	24	00	1509	39
2D1	10	00	53	53	1238	66
2D2	10	00	55	25	1330	78
5D	10	05	44	14	1668	149
6D	10	07	15	02	1301	148
7D1	10	08	47	03	1161	96
7D2	10	08	52	39	1498	113
8AE	10	10	03	15	65	48
8D	10	10	23	36	1285	156
9D	10	11	59	15	1370	112

Approved For Release 2009/04/09 : CIA-RDP78B03817A000500020024-2

Approved For Release 2009/04/09 : CIA-RDP78B03817A000500020024-2

15D	10	21	28	31	1581	24
20D1	11	05	12	42	1138	257
20D2	11	05	18	29	1485	104
21D1	11	06	51	22	1398	147
21D2	11	06	54	26	1583	135
21D3	11	06	58	56	1852	134
23D	11	10	01	08	1469	137
24D	11	11	33	55	1378	242
36D1	12	06	25	17	1301	142
36D2	12	06	29	21	1545	382
37D	12	08	02	09	1552	411
38D1	12	09	35	31	1465	35
38D2	12	09	37	33	1588	206
39D	12	11	08	55	1411	273
51D	13	06	04	51	1655	132
52AE	13	07	11	56	56	31
52D	13	07	36	23	1523	143
52D	13	07	41	13	1813	140
53D1	13	09	10	23	1504	373
53D2	13	09	18	08	1969	58
54AE	13	10	23	42	247	48
54D1	13	10	41	42	1327	41
54D2	13	10	44	42	1507	274
55D1	13	12	19	58	1565	197

Approved For Release 2009/04/09 : CIA-RDP78B03817A000500020024-2

Approved For Release 2009/04/09 : CIA-RDP78B03817A000500020024-2

55D2	13	12	30	00	2168	180
56D	13	13	59	22	1874	95
61D	13	21	50	31	1864	23
65D	14	04	01	07	1479	216
66D1	14	05	35	46	1504	115
66D2	14	05	38	15	1653	77
66D3	14	05	40	50	1808	78
67D1	14	07	11	44	1606	51
67D2	14	07	15	02	1804	71
68D1	14	08	46	51	1657	55
68D2	14	08	49	15	1800	89
69D	14	10	19	35	1583	183
80D	15	03	37	56	1576	35
81D1	15	05	10	20	1560	172
81D2	15	05	16	52	1952	189
82D	15	06	45	46	1632	127
83D1	15	08	16	17	1410	103
83D2	15	08	22	27	1780	35
83D3	15	08	24	04	1877	377
84D1	15	09	55	30	1725	58
84D2	15	10	05	24	2318	14

NOTE: ABOVE DATA APPLIES TO FWD UNIT ONLY ADD 12 SECONDS TO OBTAIN START TIMES OF AFT UNIT.

8. TIME CORRELATION (MILLISECONDS)

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Approved For Release 2009/04/09 : CIA-RDP78B03817A000500020024-2

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
8	66998.451	35942.5480	-----
15	108355.212	77299.3054	.004
23	152126.467	34670.5562	.004
39	242420.863	38564.9420	.010
54	327657.992	37402.0595	.011
61	368763.891	78507.9523	.006
69	412301.281	35645.3353	.007
84	497248.386	34192.4252	.015

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

GP-1

T O P S E C R E T

-END OF MESSAGE-

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